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DATE MAILED: 10/06/2003

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,709		02/28/2002	George K. Porter	POR-103US	4904
23122	7590	10/06/2003		EXAM	INER
RATNERPRESTIA				FOX, JOHN C	
P O BOX 9	80				
VALLEY I	FORGE, PA	A 19482-0980		ART UNIT	PAPER NUMBER
	- · -·, - · -			3753	7

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. Applicant(s)				
——————————————————————————————————————	Examiner Group Art Unit 3753				
The MAILING DATE of this communication appears	on the cover sheet beneath the correspondence address				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE 3 MONTH(S) FROM THE MAILING DATE				
nom the making date of this communication.	36(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS within the statutory minimum of thirty (30) days will be considered timely expire SIX (6) MONTHS from the mailing date of this communication. Cause the application to become ABANDONED (35 U.S.C. § 133).				
Status					
∇ Responsive to communication(s) filed on2/2	8/02				
☐ This action is FINAL .					
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 	r formal matters, prosecution as to the merits is closed in C.D. 1 1; 453 O.G. 213.				
Disposition of Claims					
Claim(s) 1-29	is/are pending in the application.				
Of the above claim(s)	is/are withdrawn from consideration.				
☐ Claim(s)	io/ara allowed				
Ø Claim(s)	is/ara rajactad				
□ Claim(s)					
	are subject to restriction or election				
Application Papers	requirement.				
☐ See the attached Notice of Draftsperson's Patent Drawing F	Raviaw PTO-048				
☐ The proposed drawing correction, filed on					
☐ The drawing(s) filed onis/are objected					
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
 □ Acknowledgment is made of a claim for foreign priority unde □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number) 	priority documents have been				
☐ received in this national stage application from the International	itional Bureau (PCT Rule 1 7.2(a)).				
*Certified copies not received:	•				
Attachment(s)					
Information Disclosure Statement(s), PTO-1449, Paper No(s). 4, 5, 6 □ Interview Summary, PTO-413				
Notice of Reference(s) Cited, PTO-892					
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	☐ Other				
	etion Summary				

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This action is responsive to the communication filed February 28, 2002.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10-11, 13, 16-22, 24-26 and 29 are rejected under 35 U.S.C. §102(b) as being anticipated by "What you can get in manifolds", hereafter cited as Almo. Almo discloses a "sandwich" manifold comprising grooves formed in the face of plates with ports on the surface, and valves mounted to the ports. See http://www.almomanifold.com/ and laminated manifolds. Almo uses brazing to seal the plates together, and a manifold can be one plate and cover or many plates.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 12, 14-15, and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Almo. The use of an elliptic cross section for the grooves is considered to be an obvious matter of design choice. The use of vacuum brazing and/or nickel brazing is also considered to be an obvious matter of design choice in view of their well known nature and Almo's disclosure of brazing.

Claims 9 and 27-28 are rejected under 35 U.S.C. § 103 as being unpatentable over Almo in view of Kumada and Vaarstra et al. It is known from Kumada to use valve manifolds for chemical vapor deposition processes. Vaarstra et al teaches a CVD process using vaporized silicon precursors. It would have been obvious for one of ordinary skill in the art

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to have used a sandwich type valve manifold such as Almo teach for a

CVD process and to include a vaporizer to provide a silicon film.

Vaporizer is considered to read on atomizer.

Any inquiry concerning this communication should be directed to

Examiner Fox at (703) 308-2595 or John.Fox@uspto.gov. Any inquiry of a

general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 308-

0861. The fax number for TC 3700 is 703-872-9302. For responses after

final the fax number is 703-872-9303. The Supervisory Primary Examiner

for Art Unit 3753 is John Rivell who can be reached at (703) 308-2599 or

at John.Rivell@uspto.gov.

JOHN FOX PRIMARY EXAMINER ART UNIT 3753

icf

September 30, 2003